SEQUENCE LISTING

<110> PATEL, AMANDA J.
      HONORE, ERIC
      LESAGE, FLORIAN
      ROMEY, GEORGES
      LAZDUSKI, MICHEL

<120> A method for the identification of anesthetics

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<141> 2000-02-11

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aaa ccg agg ctc tcg ttt tcc acg aaa ccc aca gtg ctt gct tcc cgg    96
Lys Pro Arg Leu Ser Phe Ser Thr Lys Pro Thr Val Leu Ala Ser Arg
                20                  25                  30

gtg gag agt gac acg acc att aat gtt atg aaa tgg aag acg gtc tcc   144
Val Glu Ser Asp Thr Thr Ile Asn Val Met Lys Trp Lys Thr Val Ser
            35                  40                  45

acg ata ttc ctg gtg gtt gtc ctc tat ctg atc atc gga gcc acc gtg   192
Thr Ile Phe Leu Val Val Val Leu Tyr Leu Ile Ile Gly Ala Thr Val
        50                  55                  60

ttc aaa gca ttg gag cag cct cat gag att tca cag agg acc acc att   240
Phe Lys Ala Leu Glu Gln Pro His Glu Ile Ser Gln Arg Thr Thr Ile
 65                  70                  75                  80

gtg atc cag aag caa aca ttc ata tcc caa cat tcc tgt gtc aat tcg   288
Val Ile Gln Lys Gln Thr Phe Ile Ser Gln His Ser Cys Val Asn Ser
                    85                  90                  95

acg gag ctg gat gaa ctc att cag caa ata gtg gca gca ata aat gca   336
Thr Glu Leu Asp Glu Leu Ile Gln Gln Ile Val Ala Ala Ile Asn Ala
                100                 105                 110
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ggg att ata ccg tta gga aac acc tcc aat caa atc agt cac tgg gat    384
Gly Ile Ile Pro Leu Gly Asn Thr Ser Asn Gln Ile Ser His Trp Asp
        115                 120                 125

ttg gga agt tcc ttc ttc ttt gct ggc act gtt att aca acc ata gga    432
Leu Gly Ser Ser Phe Phe Phe Ala Gly Thr Val Ile Thr Thr Ile Gly
        130                 135                 140

ttt gga aac atc tca cca cgc aca gaa ggc ggc aaa ata ttc tgt atc    480
Phe Gly Asn Ile Ser Pro Arg Thr Glu Gly Gly Lys Ile Phe Cys Ile
145                 150                 155                 160

atc tat gcc tta ctg gga att ccc ctc ttt ggt ttt ctc ttg gct gga    528
Ile Tyr Ala Leu Leu Gly Ile Pro Leu Phe Gly Phe Leu Leu Ala Gly
                165                 170                 175

gtt gga gat cag cta ggc acc ata ttt gga aaa gga att gcc aaa gtg    576
Val Gly Asp Gln Leu Gly Thr Ile Phe Gly Lys Gly Ile Ala Lys Val
                180                 185                 190

gaa gat acg ttt att aag tgg aat gtt agt cag acc aag att cgc atc    624
Glu Asp Thr Phe Ile Lys Trp Asn Val Ser Gln Thr Lys Ile Arg Ile
        195                 200                 205

atc tca aca atc ata ttt ata cta ttt ggc tgt gta ctc ttt gtg gct    672
Ile Ser Thr Ile Ile Phe Ile Leu Phe Gly Cys Val Leu Phe Val Ala
        210                 215                 220

ctg cct gcg atc ata ttc aaa cac ata gaa ggc tgg agt gcc ctg gac    720
Leu Pro Ala Ile Ile Phe Lys His Ile Glu Gly Trp Ser Ala Leu Asp
225                 230                 235                 240

gcc att tat ttt gtg gtt atc act cta aca act att gga ttt ggt gac    768
Ala Ile Tyr Phe Val Val Ile Thr Leu Thr Thr Ile Gly Phe Gly Asp
                245                 250                 255

tac gtt gca ggt gga tcc gat att gaa tat ctg gac ttc tat aag cct    816
Tyr Val Ala Gly Gly Ser Asp Ile Glu Tyr Leu Asp Phe Tyr Lys Pro
                260                 265                 270

gtc gtg tgg ttc tgg atc ctt gta ggg ctt gct tac ttt gct gct gtc    864
Val Val Trp Phe Trp Ile Leu Val Gly Leu Ala Tyr Phe Ala Ala Val
        275                 280                 285

ctg agc atg att gga gat tgg ctc cga gtg ata tct aaa aag aca aaa    912
Leu Ser Met Ile Gly Asp Trp Leu Arg Val Ile Ser Lys Lys Thr Lys
        290                 295                 300

gaa gag gtg gga gag ttc aga gca cac gct gct gag tgg aca gcc aac    960
Glu Glu Val Gly Glu Phe Arg Ala His Ala Ala Glu Trp Thr Ala Asn
305                 310                 315                 320

gtc aca gcc gaa ttc aaa gaa acc agg agg cga ctg agt gtg gag att   1008
Val Thr Ala Glu Phe Lys Glu Thr Arg Arg Arg Leu Ser Val Glu Ile
                325                 330                 335

tat gac aag ttc cag cgg gcc acc tcc atc aag cgg aag ctc tcg gca   1056
Tyr Asp Lys Phe Gln Arg Ala Thr Ser Ile Lys Arg Lys Leu Ser Ala
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                340                        345                        350
gaa ctg gct gga aac cac aat cag gag ctg act cct tgt agg agg acc    1104
Glu Leu Ala Gly Asn His Asn Gln Glu Leu Thr Pro Cys Arg Arg Thr
        355                    360                    365

ctg tca gtg aac cac ctg acc aac gag agg gat gtc ttg cct ccc tta    1152
Leu Ser Val Asn His Leu Thr Asn Glu Arg Asp Val Leu Pro Pro Leu
        370                    375                    380

ctg aag act gag agt atc tat ctg aat ggt ttg acg cca cac tgt gct    1200
Leu Lys Thr Glu Ser Ile Tyr Leu Asn Gly Leu Thr Pro His Cys Ala
385                     390                    395                    400

ggt gaa gag att gct gtg att gag aac atc aaa tag                    1236
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            20                  25                  30
Val Glu Ser Asp Thr Thr Ile Asn Val Met Lys Trp Lys Thr Val Ser
        35                  40                  45
Thr Ile Phe Leu Val Val Val Leu Tyr Leu Ile Ile Gly Ala Thr Val
    50                  55                  60
Phe Lys Ala Leu Glu Gln Pro His Glu Ile Ser Gln Arg Thr Thr Ile
65                  70                  75                      80
Val Ile Gln Lys Gln Thr Phe Ile Ser Gln His Ser Cys Val Asn Ser
                85                  90                  95
Thr Glu Leu Asp Glu Leu Ile Gln Gln Ile Val Ala Ala Ile Asn Ala
            100                 105                 110
Gly Ile Ile Pro Leu Gly Asn Thr Ser Asn Gln Ile Ser His Trp Asp
            115                 120                 125
Leu Gly Ser Ser Phe Phe Phe Ala Gly Thr Val Ile Thr Thr Ile Gly
        130                 135                 140
Phe Gly Asn Ile Ser Pro Arg Thr Glu Gly Gly Lys Ile Phe Cys Ile
145                 150                 155                     160
Ile Tyr Ala Leu Leu Gly Ile Pro Leu Phe Gly Phe Leu Leu Ala Gly
                165                 170                 175
Val Gly Asp Gln Leu Gly Thr Ile Phe Gly Lys Gly Ile Ala Lys Val
            180                 185                 190
Glu Asp Thr Phe Ile Lys Trp Asn Val Ser Gln Thr Lys Ile Arg Ile
            195                 200                 205
Ile Ser Thr Ile Ile Phe Ile Leu Phe Gly Cys Val Leu Phe Val Ala
        210                 215                 220
Leu Pro Ala Ile Ile Phe Lys His Ile Glu Gly Trp Ser Ala Leu Asp
225                 230                 235                     240
Ala Ile Tyr Phe Val Val Ile Thr Leu Thr Thr Ile Gly Phe Gly Asp
                245                 250                 255
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Tyr Val Ala Gly Gly Ser Asp Ile Glu Tyr Leu Asp Phe Tyr Lys Pro
            260                 265                 270
Val Val Trp Phe Trp Ile Leu Val Gly Leu Ala Tyr Phe Ala Ala Val
            275                 280                 285
Leu Ser Met Ile Gly Asp Trp Leu Arg Val Ile Ser Lys Lys Thr Lys
         290                 295                 300
Glu Glu Val Gly Glu Phe Arg Ala His Ala Ala Glu Trp Thr Ala Asn
305                 310                 315                 320
Val Thr Ala Glu Phe Lys Glu Thr Arg Arg Arg Leu Ser Val Glu Ile
                325                 330                 335
Tyr Asp Lys Phe Gln Arg Ala Thr Ser Ile Lys Arg Lys Leu Ser Ala
             340                 345                 350
Glu Leu Ala Gly Asn His Asn Gln Glu Leu Thr Pro Cys Arg Arg Thr
         355                 360                 365
Leu Ser Val Asn His Leu Thr Asn Glu Arg Asp Val Leu Pro Pro Leu
         370                 375                 380
Leu Lys Thr Glu Ser Ile Tyr Leu Asn Gly Leu Thr Pro His Cys Ala
385                 390                 395                 400
Gly Glu Glu Ile Ala Val Ile Glu Asn Ile Lys
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<222> (484)..(1719)

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gaagaggggc tgcagtgatc accccctcgc tgagccccgg ggcagagccc agccgccggc   180

cgagcgcacg gagccacggg ccgagcgcac ccagggcccg cgcgggaccc caggcggcca   240

cgcaatcggg gtgacccatc gcgcgcgggg gcgtcgtcgt ccgatcccaa cttggcctcg   300

gcctcgccct ctgcccagcc tgccaccgct ggtgtcctct ccttccggcg atttcgtttc   360

ttctcacgct ccccccctcta taccctccc gcctccagcc ccgctctccc caccttgtaa   420

aacaaagccg gggaaaatgc ctacccgtgc agctcggagc gcgcagcccg tcttggaata   480

agg atg gcg gcc cct gac ttg ctg gat ccc aag tct gct gct cag aac   528
    Met Ala Ala Pro Asp Leu Leu Asp Pro Lys Ser Ala Ala Gln Asn
     1               5                  10                  15

tcc aaa ccg agg ctc tca ttc tcc tca aaa ccc acc gtg ctt gct tcc   576
Ser Lys Pro Arg Leu Ser Phe Ser Ser Lys Pro Thr Val Leu Ala Ser
                 20                  25                  30

cgg gtg gag agt gac tcg gcc att aat gtt atg aaa tgg aag aca gtc   624
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Arg Val Glu Ser Asp Ser Ala Ile Asn Val Met Lys Trp Lys Thr Val
              35                    40                  45

tcc acg att ttc ctg gtg gtc gtc ctc tac ctg atc atc gga gcc gcg    672
Ser Thr Ile Phe Leu Val Val Val Leu Tyr Leu Ile Ile Gly Ala Ala
        50                    55                  60

gtg ttc aag gca ttg gag cag cct cag gag att tcc cag agg acc acc    720
Val Phe Lys Ala Leu Glu Gln Pro Gln Glu Ile Ser Gln Arg Thr Thr
        65                    70                  75

att gtg atc cag aag cag acc ttc ata gcc cag cat gcc tgc gtc aac    768
Ile Val Ile Gln Lys Gln Thr Phe Ile Ala Gln His Ala Cys Val Asn
    80                    85                  90                  95

tcc acc gag ctg gac gaa ctc atc cag caa ata gtg gca gca ata aac    816
Ser Thr Glu Leu Asp Glu Leu Ile Gln Gln Ile Val Ala Ala Ile Asn
                  100                   105                 110

gca ggg att atc ccc tta gga aac agc tcc aat caa gtt agt cac tgg    864
Ala Gly Ile Ile Pro Leu Gly Asn Ser Ser Asn Gln Val Ser His Trp
              115                   120                 125

gac ctc gga agc tct ttc ttc ttt gct ggt act gtt atc aca acc ata    912
Asp Leu Gly Ser Ser Phe Phe Phe Ala Gly Thr Val Ile Thr Thr Ile
              130                   135                 140

gga ttt gga aac atc tcc cca cga act gaa ggt gga aaa ata ttc tgc    960
Gly Phe Gly Asn Ile Ser Pro Arg Thr Glu Gly Gly Lys Ile Phe Cys
        145                   150                 155

atc atc tat gcc ttg ctg gga att ccc ctc ttt ggc ttt cta ctg gct   1008
Ile Ile Tyr Ala Leu Leu Gly Ile Pro Leu Phe Gly Phe Leu Leu Ala
160                   165                   170                 175

ggg gtt ggt gat cag cta gga act ata ttt gga aaa gga att gcc aaa   1056
Gly Val Gly Asp Gln Leu Gly Thr Ile Phe Gly Lys Gly Ile Ala Lys
                  180                   185                 190

gtg gaa gac aca ttt att aag tgg aat gtt agt cag acg aag att cgt   1104
Val Glu Asp Thr Phe Ile Lys Trp Asn Val Ser Gln Thr Lys Ile Arg
                  195                   200                 205

atc atc tcc acc atc atc ttc atc ctg ttt ggc tgt gtc ctc ttt gtg   1152
Ile Ile Ser Thr Ile Ile Phe Ile Leu Phe Gly Cys Val Leu Phe Val
        210                   215                 220

gct ctc cct gcg gtc ata ttc aag cac ata gaa ggc tgg agc gcc ctg   1200
Ala Leu Pro Ala Val Ile Phe Lys His Ile Glu Gly Trp Ser Ala Leu
        225                   230                 235

gac gct atc tat ttt gtg gtt atc act ctg acg acc att gga ttt gga   1248
Asp Ala Ile Tyr Phe Val Val Ile Thr Leu Thr Thr Ile Gly Phe Gly
240                   245                   250                 255

gac tac gtg gca ggt gga tca gac att gaa tat ctg gac ttc tac aag   1296
Asp Tyr Val Ala Gly Gly Ser Asp Ile Glu Tyr Leu Asp Phe Tyr Lys
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cct gtg gtg tgg ttc tgg atc ctc gtt ggg ctg gcc tac ttt gca gct   1344
Pro Val Val Trp Phe Trp Ile Leu Val Gly Leu Ala Tyr Phe Ala Ala
        275                 280                 285

gtt ctg agc atg att ggg gac tgg cta cgg gtg atc tct aag aag acg   1392
Val Leu Ser Met Ile Gly Asp Trp Leu Arg Val Ile Ser Lys Lys Thr
        290                 295                 300

aag gaa gag gtg gga gag ttc aga gcg cat gcc gct gag tgg aca gcc   1440
Lys Glu Glu Val Gly Glu Phe Arg Ala His Ala Ala Glu Trp Thr Ala
    305                 310                 315

aat gtc acg gcc gag ttc aag gaa acg agg agg cgg ctg agc gtg gag   1488
Asn Val Thr Ala Glu Phe Lys Glu Thr Arg Arg Arg Leu Ser Val Glu
320                 325                 330                 335

atc tac gac aag ttc cag cgt gcc aca tcc gtg aag cgg aag ctc tcc   1536
Ile Tyr Asp Lys Phe Gln Arg Ala Thr Ser Val Lys Arg Lys Leu Ser
                340                 345                 350

gca gag ctg gcg ggc aac cac aac cag gaa ctg act ccg tgt agg agg   1584
Ala Glu Leu Ala Gly Asn His Asn Gln Glu Leu Thr Pro Cys Arg Arg
            355                 360                 365

acc ctg tct gtg aac cac ctg acc agc gag agg gaa gtc ctg cct ccc   1632
Thr Leu Ser Val Asn His Leu Thr Ser Glu Arg Glu Val Leu Pro Pro
        370                 375                 380

ttg ctg aag gct gag agc atc tat ctg aac ggt ctg aca cca cac tgt   1680
Leu Leu Lys Ala Glu Ser Ile Tyr Leu Asn Gly Leu Thr Pro His Cys
        385                 390                 395

gct ggt gag gac ata gct gtc att gag aac atg aag tag ccctctcttg   1729
Ala Gly Glu Asp Ile Ala Val Ile Glu Asn Met Lys
400                 405                 410

gaagagtctg aggtggagcc atagggaagg gcttctctag gctctttgtg actgttgccg   1789

gtagcattta aacattgtgc atggtgacct caaagggaaa gcaaatagaa aacacccatc   1849

tggtcacctt acatccaggg agggtgttgt cccgaggcgg cactctgagg atgccgtgtg   1909

ctgtccgctg agtgctgagt gatggacagg cagtgtctga tgccttttgt gcccagactg   1969

tttcccctcc ccctctctcc taacgtgcca taaggcctat gaatgaatct gaatgctttg   2029

ctggtcatgt agattggagg gatcagccct tggtttttca tggttcacct aactgagcct   2089

ggatactgac cacttaggga tgacaacatt tcttttgta aatggcgaga aattcttacg   2149

cagcctttta cctaagaaat tttctgccag tgccttatct tatgaagaaa caagaccctg   2209

tctggtgggc ttgtggttcc tcccttcccc gccctcaccg tgggctcacc ctttgctgac   2269

tctcacctat cccctccct ccgcatacct tattgtgctg gaagcaatgt gtggcttgat   2329
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actgcagaga agggaggtca gagaaggccc ctctgagtat ttatttgacc ggggtaccaa 2449

tggtacagct atatatatgt acagagtaat aattcccagg ccggtaacct tggctgcttc 2509

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tgagaagaaa acagcgagac cacgtgtcgt gcgcatgagc tcatacaggg ctcactgtca 2749

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ctgaacactg tatatgtaat ttttaaattt ttaaagcgca gaaggaaaat gattcttcta 3229

catgtaatcg caaaactgat ttctcccttc tggggggaggc ttgggcttac gtgatcatgt 3289

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ctattttcca aaatttgaat ttaagctata aatgtaaata tatccagttc gcttgcagag 3409

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aaagaaagct ccacccatct cctgaatagc cgttttggaa gctgacatgg tgggatgtac 3529

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            20   25   30
Val Glu Ser Asp Ser Ala Ile Asn Val Met Lys Trp Lys Thr Val Ser
        35   40   45
Thr Ile Phe Leu Val Val Val Leu Tyr Leu Ile Ile Gly Ala Ala Val
    50   55   60
Phe Lys Ala Leu Glu Gln Pro Gln Glu Ile Ser Gln Arg Thr Thr Ile

Val Ile Gln Lys Gln Thr Phe Ile Ala Gln His Ala Cys Val Asn Ser
                    85   90   95
Thr Glu Leu Asp Glu Leu Ile Gln Gln Ile Val Ala Ala Ile Asn Ala
                    100   105   110
Gly Ile Ile Pro Leu Gly Asn Ser Ser Asn Gln Val Ser His Trp Asp
                    115   120   125
Leu Gly Ser Ser Phe Phe Phe Ala Gly Thr Val Ile Thr Thr Ile Gly
                    130   135   140
Phe Gly Asn Ile Ser Pro Arg Thr Glu Gly Gly Lys Ile Phe Cys Ile
145   150   155   160
Ile Tyr Ala Leu Leu Gly Ile Pro Leu Phe Gly Phe Leu Leu Ala Gly
                    165   170   175
Val Gly Asp Gln Leu Gly Thr Ile Phe Gly Lys Gly Ile Ala Lys Val
                    180   185   190
Glu Asp Thr Phe Ile Lys Trp Asn Val Ser Gln Thr Lys Ile Arg Ile
                    195   200   205
Ile Ser Thr Ile Ile Phe Ile Leu Phe Gly Cys Val Leu Phe Val Ala
                    210   215   220
Leu Pro Ala Val Ile Phe Lys His Ile Glu Gly Trp Ser Ala Leu Asp
225   230   235   240
Ala Ile Tyr Phe Val Val Ile Thr Leu Thr Thr Ile Gly Phe Gly Asp
                    245   250   255
Tyr Val Ala Gly Gly Ser Asp Ile Glu Tyr Leu Asp Phe Tyr Lys Pro
                    260   265   270
Val Val Trp Phe Trp Ile Leu Val Gly Leu Ala Tyr Phe Ala Ala Val
                    275   280   285
Leu Ser Met Ile Gly Asp Trp Leu Arg Val Ile Ser Lys Lys Thr Lys
                    290   295   300
Glu Glu Val Gly Glu Phe Arg Ala His Ala Ala Glu Trp Thr Ala Asn
305   310   315   320
Val Thr Ala Glu Phe Lys Glu Thr Arg Arg Arg Leu Ser Val Glu Ile
                    325   330   335
Tyr Asp Lys Phe Gln Arg Ala Thr Ser Val Lys Arg Lys Leu Ser Ala
                    340   345   350
Glu Leu Ala Gly Asn His Asn Gln Glu Leu Thr Pro Cys Arg Arg Thr
                    355   360   365
Leu Ser Val Asn His Leu Thr Ser Glu Arg Glu Val Leu Pro Pro Leu
                    370   375   380
Leu Lys Ala Glu Ser Ile Tyr Leu Asn Gly Leu Thr Pro His Cys Ala
385   390   395   400
Gly Glu Asp Ile Ala Val Ile Glu Asn Met Lys
                    405   410

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<213> Mus sp.

<220>
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                    20   25   30
Pro Glu Leu Ile Glu Arg Gln Arg Leu Glu Leu Arg Gln Gln Glu Leu
            35   40   45
Arg Ala Arg Tyr Asn Leu Ser Gln Gly Gly Tyr Glu Glu Leu Glu Arg

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          50                      55                      60
Val Val Leu Arg Leu Lys Pro His Lys Ala Gly Val Gln Trp Arg Phe
 65                      70                      75                      80
Ala Gly Ser Phe Tyr Phe Ala Ile Thr Val Ile Thr Thr Ile Gly Tyr
                     85                      90                      95
Gly His Ala Ala Pro Ser Thr Asp Gly Gly Lys Val Phe Cys Met Phe
                    100                     105                     110
Tyr Ala Leu Leu Gly Ile Pro Leu Thr Leu Val Met Phe Gln Ser Leu
                    115                     120                     125
Gly Glu Arg Ile Asn Thr Leu Val Arg Tyr Leu Leu His Arg Ala Lys
                    130                     135                     140
Lys Gly Leu Gly Met Arg Arg Ala Asp Val Ser Met Ala Asn Met Val
145                     150                     155                     160
Leu Ile Gly Phe Phe Ser Cys Ile Ser Thr Leu Cys Ile Gly Ala Ala
                    165                     170                     175
Ala Phe Ser His Tyr Glu His Trp Thr Phe Phe Gln Ala Tyr Tyr Tyr
                    180                     185                     190
Cys Phe Ile Thr Leu Thr Thr Ile Gly Phe Gly Asp Tyr Val Ala Leu
                    195                     200                     205
Gln Lys Asp Gln Ala Leu Gln Thr Gln Pro Gln Tyr Val Ala Phe Ser
                    210                     215                     220
Phe Val Tyr Ile Leu Thr Gly Leu Thr Val Ile Gly Ala Phe Leu Asn
225                     230                     235                     240
Leu Val Val Leu Arg Phe Met Thr Met Asn Ala Glu Asp Glu Lys Arg
                    245                     250                     255
Asp Ala Glu His Arg Ala Leu Leu Thr Arg Asn Gly Gln Ala Gly Gly
                    260                     265                     270
Gly Gly Gly Gly Gly Ser Ala His Thr Thr Asp Thr Ala Ser Ser Thr
                    275                     280                     285
Ala Ala Ala Gly Gly Gly Gly Phe Arg Asn Val Tyr Ala Glu Val Leu
                    290                     295                     300
His Phe Gln Ser Met Cys Ser Cys Leu Trp Tyr Lys Ser Arg Glu Lys
305                     310                     315                     320
Leu Gln Tyr Ser Ile Pro Met Ile Ile Pro Arg Asp Leu Ser Thr Ser
                    325                     330                     335
Asp Thr Cys Val Glu Gln Ser His Ser Ser Pro Gly Gly Gly Gly Arg
                    340                     345                     350
Tyr Ser Asp Thr Pro Ser Arg Arg Cys Leu Cys Ser Gly Ala Pro Arg
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Ser Ala Ile Ser Ser Val Ser Thr Gly Leu His Ser Leu Ser Thr Phe
                    370                     375                     380
Arg Gly Leu Met Lys Arg Arg Ser Ser Val
385                     390
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